ABSTRACT OF THE DISCLOSURE

Methods and systems for I/O resource management that may be employed to manage information management system I/O resources based on modeled and/or monitored I/O resource information, and that may be implemented to optimize information management system I/O resources for the delivery of a variety of data object types, including continuous streaming media data files. The methods and systems may be implemented in an adaptive manner that is capable of optimizing information management system I/O performance by dynamically adjusting information management system I/O operational parameters to meet changing requirements or demands of a dynamic application or information management system I/O environment using a resource management architecture. The resource management architecture may include, for example, a resource manager, a resource model, a storage device workload monitor and/or a storage device capacity monitor. The resource model may be configured to generate system performance information based on monitored storage device workload and/or storage device capacity information. The resource manager may be configured to manage information management system I/O operation and/or resources using the system performance information.

116

SURG-156